



Robert Greene Sterne
Edward J. Kessler
Jorge A. Goldstein
David K.S. Comwell
Robert W. Esmond
Tracy-Gene G. Durkin
Michele A. Cimbala
Michael B. Ray
Robert E. Sokohl
Eric K. Steffe
Michael Q. Lee
Steven R. Ludwig
John M. Covert
Linda E. Alcorn
Robert C. Millonig
Lawrence B. Bugaisky
Donald J. Featherstone
Michael V. Messinger

Judith U. Kim
Timothy J. Shea, Jr.
Patrick E. Garrett
Jeffery T. Helvey*
Heidi L. Kraus
Crystal D. Sayles
Edward W. Yee
Albert L. Ferro*
Donald R. Banowitz
Peter A. Jackman
Molly A. McCall
Teresa U. Medler
Jeffrey S. Weaver
Kendrick P. Patterson
Vincent L. Capuano
Albert J. Fasulo II*
Eldora Ellison Floyd
W. Russell Swindell

Thomas C. Flala
Brian J. Del Buono
Virgil Lee Beaston*
Reginald D. Lucas*
Kimberly N. Reddick
Theodore A. Wood
Elizabeth J. Haanes
Bruce E. Chalker
Joseph S. Ostroff
Frank R. Cotttingham*
Christine M. Lhuiler
Rae Lynn Prgaman*
Jane Shershenovich*
Lawrence J. Carroll*
George S. Bairdnesser
Rodney G. Maze

Registered Patent Agents*
Karen R. Markowicz
Andrea J. Kamage
Nancy J. Leith
Ann E. Summerfield
Helene C. Carlson
Gaby L. Longsworth
Matthew J. Dowd
Aaron L. Schwartz
Angelique G. Uy
Boris A. Matvenko
Mary B. Tung
Katrina Y. Pei
Bryan L. Skelton
Robert A. Schwartzman
Jason D. Eisenberg
John J. Figueroa

Senior Counsel
Samuel L. Fox
Kenneth C. Bass III
Lisa A. Dunner

*Admitted only in Maryland
†Admitted only in Virginia
‡Admitted only in Texas
•Practice Limited to Federal Agencies

August 8, 2002

WRITER'S DIRECT NUMBER:
(202) 371-2582

INTERNET ADDRESS:
PIACKMAN@SKGF.COM

Commissioner for Patents
Washington, D.C. 20231

Art Unit 1636

RECEIVED

Re: U.S. Utility Patent Application
Appl. No. 10/075,446; Filed: February 15, 2002
For: **Keratinocyte Growth Factor-2**
Inventors: Ruben *et al.*
Our Ref: 1488.036000Q/EKS/PAJ

AUG 09 2002

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Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement (*in duplicate*);
2. PTO Form 1449 (25 pages) listing 121 documents;
3. Document Nos. AA1, AB1, AC1, AD1, AE1, AF1, AG1, AH1, AI1, AJ1, AK1, AL1, AM1, AN1, AO1, AP1, AR1, AS1, AT1, AA2, AB2, AC2, AL2, AM2, AN2, AO2, AP2, AR2, AS2, AT2, AL3, AM3, AN3, AO3, AP3, AR3, AS3, AT3, AL4, AM4, AN4, AO4, AP4, AR4, AS4, AT4, AL5, AM5, AN5, AO5, AP5, AR5, AS5, AT5, AL6, AM6, AN6, AO6, AP6, AR6, AS6, AT6, AL7, AM7, AR7, AS7, AT7, AR8, AS8, AT8, AR9, AS9, AT9, AR10, AS10, AT10, AR11, AS11, AT11, AR12, AS12, AT12, AR13, AS13, AT13, AR14, AS14, AT14, AR15, AS15, AT15, AR16, AS16, AT16, AR17, AS17, AT17, AR18, AS18, AT18, AR19, AS19, AT19, AR20, AS20, AT20, AR21, AS21, AT21, AR22, AS22, AT22, AR23, AS23, AT23, AR24, AS24, AT24, AR25, AS25 and AT25; and
4. One return postcard.

Commissioner for Patents
August 8, 2002
Page 2

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Peter A. Jackman
Attorney for Applicants
Registration No. 45,986

PAJ:aye
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RUBEN *et al.*

Appl. No. 10/075,446

Filed: February 15, 2002

For: **Keratinocyte Growth Factor-2**

Confirmation No. 8759

Art Unit: 1636

Examiner: *To be assigned*

Atty. Docket: 1488.036000Q/EKS/PAJ

#8
A.G.J
9/23/02

Information Disclosure Statement

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

In accordance with 37 C.F.R. § 1.98(a)(3) and M.P.E.P. § 609 III. A(3), Applicants' undersigned representative submits the following in regards to non-English language documents AM3, AN3, AN4, AL5, AL6, AM6 and AN6 cited on Form PTO-1449:

Document **AM3**, Japanese Patent Application No. 7-345689, is in the Japanese language. An English language translation of document AM3 is attached as document **AR21**.

Document **AN3**, Japanese Patent Application No. 8-103240, is in the Japanese language. An English language translation of document AN3 is attached as document **AS21**.

Document **AN4**, Japanese Patent Application No. 8-214378, is in the Japanese language. An English language translation of document AN4 is attached as document **AT21**.

Document **AL5**, WO 97/20929, is in the Japanese language. An English language translation of document AL5 is attached as document **AR22**.

Document **AL6**, Japanese Patent No. 10-330283, is in the Japanese language. An English language abstract of document AL6 is attached as document **AS22**.

Document **AM6**, Japanese Patent No. 10-330284, is in the Japanese language. An English language abstract of document AM6 is attached as document **AT22**.

RUBEN *et al.*
Appl. No. 10/075,446

Document **AN6**, Japanese Patent No. 10-330285, is in the Japanese language. An English language abstract of document AN6 is attached as document **AR23**.

Applicants would also like to direct the Examiner's attention to co-pending United States Application No. 09/248,998, filed February 12, 1999; Application No. 09/345,373, filed July 1, 1999; Application No. 09/585,541, filed June 2, 2000; Application No. 09/610,651, filed June 30, 2000; Application No. 09/853,666, filed May 14, 2001, published February 7, 2002 and Application No. 10/035,212, filed January 4, 2002, which are directed to related technical subject matter.

In addition, Applicants wish to bring to the attention of the Examiner that SEQ ID NO:1 and the corresponding cDNA clone of this application are related to SEQ ID NO:40589 in co-pending U.S. Patent Application Serial No. 09/912,292. Legible copies of those portions of U.S. Patent Application Serial No. 09/912,292 which caused them to be listed on the attached Form PTO-1449 are submitted herewith as reference AT25.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not

RUBEN *et al.*
Appl. No. 10/075,446

exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this pleading is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Peter A. Jackman
Attorney for Applicants
Registration No. 45,986

Date: August 8, 2002

1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1488.036000Q/EKS/PAJAPPLICATION NO.
10/075,446APPLICANT
RUBEN et al.FILING DATE
February 15, 2002GROUP
1636

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|------------|----------------------|-------|-----------|-------------|
| | AA1 | 5,194,596 | 03/16/1993 | Tischer et al. | 530 | 399 | 12/14/1989 |
| | AB1 | 5,350,836 | 09/27/1994 | Kopchick et al. | 530 | 399 | 05/04/1992 |
| | AC1 | 5,580,856 | 12/03/1996 | Prestrelski et al. | 514 | 21 | 07/15/1994 |
| | AD1 | 5,677,278 | 10/14/1997 | Gospodarowicz et al. | 514 | 12 | 03/27/1995 |
| | AE1 | 5,703,047 | 12/30/1997 | Wilson, S.E. | 514 | 12 | 03/09/1995 |
| | AF1 | 5,731,170 | 03/24/1998 | Rubin et al. | 435 | 69.4 | 06/07/1995 |
| | AG1 | 5,773,252 | 06/30/1998 | Greene et al. | 435 | 69.4 | 06/05/1995 |
| | AH1 | 5,773,586 | 06/30/1998 | Gospodarowicz et al. | 530 | 399 | 06/06/1995 |
| | AI1 | 5,814,605 | 09/29/1998 | Pierce et al. | 514 | 12 | 06/06/1995 |
| | AJ1 | 5,824,643 | 10/20/1998 | Pierce et al. | 514 | 12 | 06/07/1995 |
| | AK1 | 5,843,883 | 12/01/1998 | Gospodarowicz et al. | 468 | 547 | 06/06/1995 |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|------------|---------|-------|-----------|-------------|
| | AL1 | WO 90/08771 | 08/09/1990 | WIPO | | | Yes No |
| | AM1 | WO 92/14480 | 09/03/1992 | WIPO | | | Yes No |
| | AN1 | WO 92/22304 | 12/23/1992 | WIPO | | | Yes No |
| | A01 | WO 93/21908 | 11/11/1993 | WIPO | | | Yes No |
| | AP1 | EP 0 619 370 A1 | 10/12/1994 | Europe | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | 1 | Bowie, J.U. et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990). |
| | AS | 1 | Finch, P. W. et al., "Human KGF Is FGF-Related with Properties of a Paracrine Effector of Epithelial Cell Growth," <i>Science</i> 245:752-755, American Association for the Advancement of Science (1989). |
| | AT | 1 | Hartung, H. et al., "Murine FGF-12 and FGF-13: expression in embryonic nervous system, connective tissue and heart," <i>Mech. Develop.</i> 64:31-39, Elsevier Science Ireland Ltd. (June 1997). |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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| FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u> | | ATTY. DOCKET NO. 1488.0360000/EKS/PAJ | | APPLICATION NO. 10/075,446 |
| | | APPLICANT RUBEN et al. | | |
| | | FILING DATE February 15, 2002 | | GROUP 1636 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|------------|----------------------|-------|-----------|-------------|
| | AA2 | 5,863,767 | 01/26/1999 | Gospodarowicz et al. | 435 | 694 | 06/06/1995 |
| | AB2 | 6,077,692 | 06/20/2000 | Ruben et al. | 435 | 69.4 | 02/13/1998 |
| | AC2 | 6,238,888 B1 | 05/29/2001 | Gentz et al. | 435 | 69.4 | 12/22/1998 |
| | AD | | | | | | |
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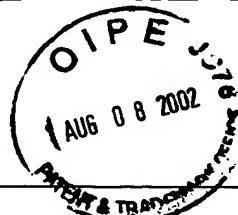
FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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| | AL2 | WO 94/22427 | 10/13/1994 | WIPO | | | Yes No |
| | AM2 | WO 94/23032 | 10/13/1994 | WIPO | | | Yes No |
| | AN2 | WO 95/01434 | 01/12/1995 | WIPO | | | Yes No |
| | AO2 | WO 95/03831 | 02/09/1995 | WIPO | | | Yes No |
| | AP2 | WO 95/24928 | 09/21/1995 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|---|--|
| | AR | 2 | Hartung, H. et al., "Assignment of Fgf12 to mouse chromosome bands 16B1→B3 in situ hybridization," <i>Cytogenet. Cell Genet.</i> 76:185-186, Karger A.G. (April 1997). |
| | AS | 2 | Jimenez, P. et al., "Effect of Topical Keratinocyte Growth Factor-2 on Wound Healing In A Glucocorticoid-Impaired Model," <i>J. Cutan. Pathol.</i> 24:105, The American Society of Dermatopathology, Munksgaard (February 1997). |
| | AT | 2 | Jimenez, P.A. et al., "Effect of Keratinocyte Growth Factor-2 on Cell Proliferation In Vivo," <i>FASEB J.</i> 11:A523, Abstract No. 3025, Federation of American Societies for Experimental Biology (April 1997). |

| EXAMINER | DATE CONSIDERED |
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| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant | |



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| FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u> | | ATTY. DOCKET NO. 1488.036000Q/EKS/PAJ | APPLICATION NO. 10/075,446 |
| | | APPLICANT RUBEN <i>et al.</i> | |
| | | FILING DATE February 15, 2002 | GROUP 1636 |

U.S. PATENT DOCUMENTS

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| | AL3 | WO 95/24928 A3 | 10/12/1995 | WIPO | | | Yes No |
| | AM3 | JP 7-345689 | 12/07/1995 | Japan | | | X Yes No |
| | AN3 | JP 8-103240 | 03/28/1996 | Japan | | | X Yes No |
| | AO3 | WO 96/11949 | 04/25/1996 | WIPO | | | Yes No |
| | AP3 | WO 96/11950 | 04/25/1996 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|---|---|
| | AR | 3 | Jimenez, P.A. and Rampy, M.A., "Keratinocyte Growth Factor-2 Accelerates Wound Healing in Incisional Wounds," <i>J. Surg. Res.</i> 81:238-242, Academic Press, Inc. (February 1999). |
| | AS | 3 | Kelley, M. J. <i>et al.</i> , "Emergence of the keratinocyte growth factor multigene family during the great ape radiation," <i>Proc. Natl. Acad. Sci. USA</i> 89:9287-9291, National Academy of Sciences of the USA (1992). |
| | AT | 3 | Mason, I.J. <i>et al.</i> , "FGF-7 (keratinocyte growth factor) expression during mouse development suggests roles in myogenesis, forebrain regionalisation and epithelial-mesenchymal interactions," <i>Mech. Dev.</i> 45:15-30, Elsevier Science Ireland Ltd. (January 1994). |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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| AL4 | | WO 96/11951 | 04/25/1996 | WIPO | | | Yes No |
| AM4 | | WO 96/11952 | 04/25/1996 | WIPO | | | Yes No |
| AN4 | | JP 8-214378 | 07/24/1996 | Japan | | | X Yes No |
| AO4 | | WO 96/22369 | 07/25/1996 | WIPO | | | Yes No |
| AP4 | | WO 96/25422 | 08/22/1996 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
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| | AR | 4 | Miyamoto, M. et al., "Molecular Cloning of a Novel Cytokine cDNA Encoding the Ninth Member of the Fibroblast Growth Factor Family, Which Has a Unique Secretion Property," <i>Mol. Cell. Biol.</i> 13(7):4251-4259, American Society for Microbiology (1993). |
| | AS | 4 | Ngo, J.T. et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox," in: <i>The Protein Folding Problem and Tertiary Structure Prediction</i> , Merz, Jr., K. and Le Grand, S., eds., Birkhauser, Boston, Massachusetts, pp. 491-495 (1994). |
| | AT | 4 | Robson, B. and Garnier, J., "Modern ideas and notations relating to primary structure," in: <i>Introduction to Protein Engineering</i> , Robson, B. and Gernier, J., eds., Elsevier Science, Amsterdam, The Netherlands, p. 41 (1986). |

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| | | APPLICANT RUBEN et al. | |
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|------------------|-----|-----------------|------------|---------------|-------|-----------|-------------|
| | AL5 | WO 97/20929 | 12/06/1997 | WIPO | | | X Yes No |
| | AM5 | WO 98/06844 | 02/19/1998 | WIPO | | | Yes No |
| | AN5 | WO 98/16642 | 04/23/1998 | WIPO | | | Yes No |
| | AO5 | WO 98/16243 | 04/23/1998 | WIPO | | | Yes No |
| | AP5 | GB 2 321 852 A | 08/12/1998 | Great Britain | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|----|---|---|
| AR | 5 | Ron, D. et al., "Expression of Biologically Active Recombinant Keratinocyte Growth Factor," <i>J. Biol. Chem.</i> 268(4):2984-2988, American Society for Biochemistry and Molecular Biology, Inc. (1993). |
| AS | 5 | Wells, J.A., "Additivity of Mutational Effects in Proteins," <i>Biochemistry</i> 29:8509-8517, American Chemical Society (1990). |
| AT | 5 | Yamasaki, M. et al., "Structure and Expression of the Rat mRNA Encoding a Novel Member of the Fibroblast Growth Factor Family," <i>J. Biol. Chem.</i> 271:15918-15921, The American Society for Biochemistry and Molecular Biology, Inc. (July 1996). |

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|------------------|-----|-----------------|------------|---------|-------|-----------|-----------------|
| | AL6 | JP 10-330283 | 12/15/1998 | Japan | | | Yes Abstract No |
| | AM6 | JP 10-330284 | 12/15/1998 | Japan | | | Yes Abstract No |
| | AN6 | JP 10-330285 | 12/15/1998 | Japan | | | Yes Abstract No |
| | A06 | WO 99/32135 | 07/01/1999 | WIPO | | | Yes No |
| | AP6 | WO 99/41282 | 08/19/1999 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|----|---|---|
| AR | 6 | Yan, G. et al., "Sequence of Rat Keratinocyte Growth Factor (Heparin-Binding Growth Factor Type 7)," <i>In Vitro Cell. Dev. Biol.</i> 27A:437-438, Tissue Culture Association (1991). |
| AS | 6 | NCBI Entrez, GenBank Report with Revision History, Accession No. M79878, McCombie, W.R. et al. (1992). |
| AT | 6 | NCBI Entrez, GenBank Report with Revision History, Accession No. T52063, Hillier, L. et al. (February 1995). |

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| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | | ATTY. DOCKET NO. 1488.036000Q/EKS/PAJ | APPLICATION NO. 10/075,446 |
| | | APPLICANT RUBEN et al. | |
| | | FILING DATE February 15, 2002 | GROUP 1636 |

U.S. PATENT DOCUMENTS

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|------------|---------|-------|-----------|-------------|
| | AL7 | WO 00/72872 | 12/07/2000 | WIPO | | | Yes No |
| | AM7 | WO 01/02433 | 01/11/2001 | WIPO | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|---|--|
| | AR | 7 | NCBI Entrez, GenBank Report with Revision History, Accession No. D46201, Sasaki, T. et al. (August 1995). |
| | AS | 7 | NCBI Entrez, GenBank Report with Revision History, Accession No. D46420, Sasaki, T. et al. (August 1995). |
| | AT | 7 | NCBI Entrez, GenBank Report with Revision History, Accession No. D54216, Fujiwara, T. et al. (September 1995). |

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| | AL | | | | | | Yes No |
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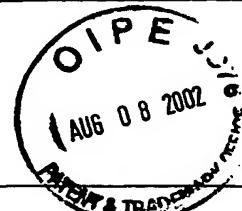
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|----------|---|
| | AR | <u>8</u> | NCBI Entrez, GenBank Report with Revision History, Accession No. D68729, Kohara, Y. et al. (December 1995). |
| | AS | <u>8</u> | NCBI Entrez, GenBank Report with Revision History, Accession No. D69248, Kohara, Y. et al. (December 1995). |
| | AT | <u>8</u> | NCBI Entrez, GenBank Report with Revision History, Accession No. D65627, Kohara, Y. et al. (December 1995). |

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| | AR | 9 | NCBI Entrez, GenBank Report with Revision History, Accession No. D66221, Kohara, Y. et al. (December 1995). |
| | AS | 9 | NCBI Entrez, GenBank Report with Revision History, Accession No. C02000, Okubo, K. (July 1996). |
| | AT | 9 | NCBI Entrez, GenBank Report with Revision History, Accession No. W29377, Marra, M. et al. (September 1996). |

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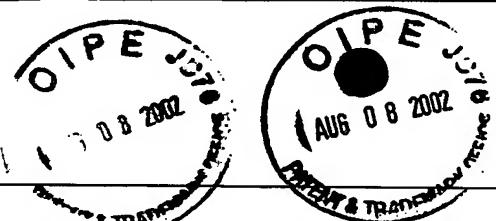
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|----|---|
| | AR | 10 | NCBI Entrez, GenBank Report with Revision History, Accession No. W32720, Hillier, L. et al. (October 1996). |
| | AS | 10 | NCBI Entrez, GenBank Report with Revision History, Accession No. W60824, Hillier, L. et al. (October 1996). |
| | AT | 10 | NCBI Entrez, GenBank Report with Revision History, Accession No. T70682, Shen, B. et al. (October 1996). |

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| | AR | 11 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA094753, Liew, C.C. (October 1996). |
| | AS | 11 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA133331, Hillier, L. et al. (November 1996). |
| | AT | 11 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA190058, Marra, M. et al. (January 1997). |

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| | AR | <u>12</u> | NCBI Entrez, GenBank Report with Revision History, Accession No. AA018953, Hillier, L. et al. (January 1997). |
| | AS | <u>12</u> | NCBI Entrez, GenBank Report with Revision History, Accession No. AA240978, Marra, M. et al. (March 1997). |
| | AT | <u>12</u> | NCBI Entrez, GenBank Report with Revision History, Accession No. AA289560, Marra, M. et al. (April 1997). |

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| | AR | 13 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA296993, Adams, M.D. et al. (April 1997). |
| | AS | 13 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA298937, Adams, M.D. et al. (April 1997). |
| | AT | 13 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA312184, Adams, M.D. et al. (April 1997). |

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| AR | 14 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA312483, Adams, M.D. et al. (April 1997). |
| AS | 14 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA356781, Adams, M.D. et al. (April 1997). |
| AT | 14 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA412789, Marra, M. et al. (May 1997). |

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| | AL | | | | | | Yes No |
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| | AR | 15 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA472256, Marra, M. et al. (June 1997). |
| | AS | 15 | NCBI Entrez, GenBank Report with Revision History, Accession No. U67918, Jimenez, P.A. et al., National Center for Biotechnology Information (July 1997). |
| | AT | 15 | NCBI Entrez, GenBank Report with Revision History, Accession No. C38464, Kohara, Y. et al. (September 1997). |

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| | AR | 16 | NCBI Entrez, GenBank Report with Revision History, Accession No. C56505, Kohara, Y. et al. (September 1997). |
| | AS | 16 | NCBI Entrez, GenBank Report with Revision History, Accession No. C57074, Kohara, Y. et al. (September 1997). |
| | AT | 16 | NCBI Entrez, GenBank Report with Revision History, Accession No. C58558, Kohara, Y. et al. (September 1997). |

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| | AR | 17 | NCBI Entrez, GenBank Report with Revision History, Accession No. C58846, Kohara, Y. et al. (September 1997). |
| | AS | 17 | NCBI Entrez, GenBank Report with Revision History, Accession No. C59317, Kohara, Y. et al. (September 1997). |
| | AT | 17 | NCBI Entrez, GenBank Report with Revision History, Accession No. C59311, Kohara, Y. et al. (September 1997). |

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| | AR | 18 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA605609, Clark, M. et al. (September 1997). |
| | AS | 18 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA621871, NCI-CGAP (October 1997). |
| | AT | 18 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA621888, NCI-CGAP (October 1997). |

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1488.036000Q/EKS/PAJAPPLICATION NO.
10/075,446APPLICANT
RUBEN et al.FILING DATE
February 15, 2002GROUP
1636

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|----|-----------------|------|------|-------|-----------|-------------|
| | AA | | | | | | |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|----|--|
| | AR | 19 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA675470, Marra, M. et al. (November 1997). |
| | AS | 19 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA675519, Marra, M. et al. (November 1997). |
| | AT | 19 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA838994, Marra, M. et al. (February 1998). |

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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | 20 | NCBI Entrez, GenBank Report with Revision History, Accession No. H35048, Lee, N.H. et al. (April 1998). |
| | AS | 20 | NCBI Entrez, GenBank Report with Revision History, Accession No. AA906051, NCI-CGAP (May 1998). |
| | AT | 20 | NCBI Entrez, GenBank Report with Revision History, Accession No. C78836, Ko, M.S.H. et al. (June 1998). |

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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>21</u> | English language translation of JP 7-345689 (Document AM3). |
| | AS | <u>21</u> | English language translation of JP 8-103240 (Document AN3). |
| | AT | <u>21</u> | English language translation of JP 8-214378 (Document AN4). |

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| | AR | <u>22</u> | English language translation of WO 97/20929 (Document AL5). |
| | AS | <u>22</u> | Dialog File 351, Accession No. 12329483, Derwent WPI English language abstract for JP 10-330283 (Document AL6). |
| | AT | <u>22</u> | Dialog File 351, Accession No. 12294894, Derwent WPI English language abstract for JP 10-330284 (Document AM6). |

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| | | APPLICANT RUBEN et al. | |
| | | FILING DATE February 15, 2002 | GROUP 1636 |

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| | AR | <u>23</u> | Dialog File 351, Accession No. 12303256, Derwent WPI English language abstract for JP 10-330285 (Document AN6). |
| | AS | <u>23</u> | International Search Report for International Application No. PCT/US95/01790, mailed June 7, 1995. |
| | AT | <u>23</u> | Copy of Co-pending U.S. Application No. 09/248,998, filed February 12, 1999, Jimenez et al. |

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|-----------|---|
| | AR | <u>24</u> | Copy of Co-pending U.S. Application No. 09/345,373, filed July 1, 1999, Ruben et al. |
| | AS | <u>24</u> | Copy of Co-pending U.S. Application No. 09/585,541, filed June 2, 2000, Gentz et al. |
| | AT | <u>24</u> | Copy of Co-pending U.S. Application No. 09/610,651, filed June 30, 2000, Ruben et al. |

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| | AR | 25 | Copy of Co-pending U.S. Publication No. US 2002/0016295 A1, published February 7, 2002 (U.S. Application No. 09/853,666, filed May 14, 2001), Gentz et al. |
| | AS | 25 | Copy of Co-pending U.S. Application No. 10/035,212, filed January 4, 2002, Ruben et al. |
| | AT | 25 | Copy of pages 1-75 (pages 1 and 2 partially redacted), portion of Table 2 and SEQ IS NO:40589 of non published co-pending U.S. Application No. 09/912,292, Rosen et al. |

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